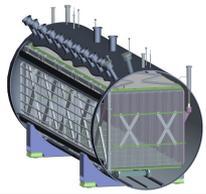


MicroBooNE Status Report

Michael Mooney

All Experimenters' Meeting

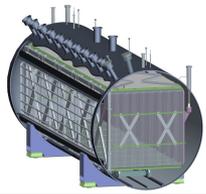
October 12th, 2015



LArTF Sump Pump

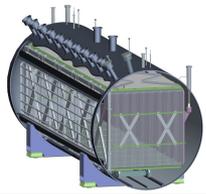
- ◆ **9/23/2015** – leak in piping connected to LArTF sump pump
 - Discovered by Cryo Operations team in the early morning
- ◆ Backup sump pump installed in LArTF pit temporarily while line was in repair
 - Return through hose routed up to ground level and out garage door near main LArTF entrance
- ◆ Schedule 40 PVC now in place with original setup restored
 - Will likely upgrade to Schedule 80 PVC soon



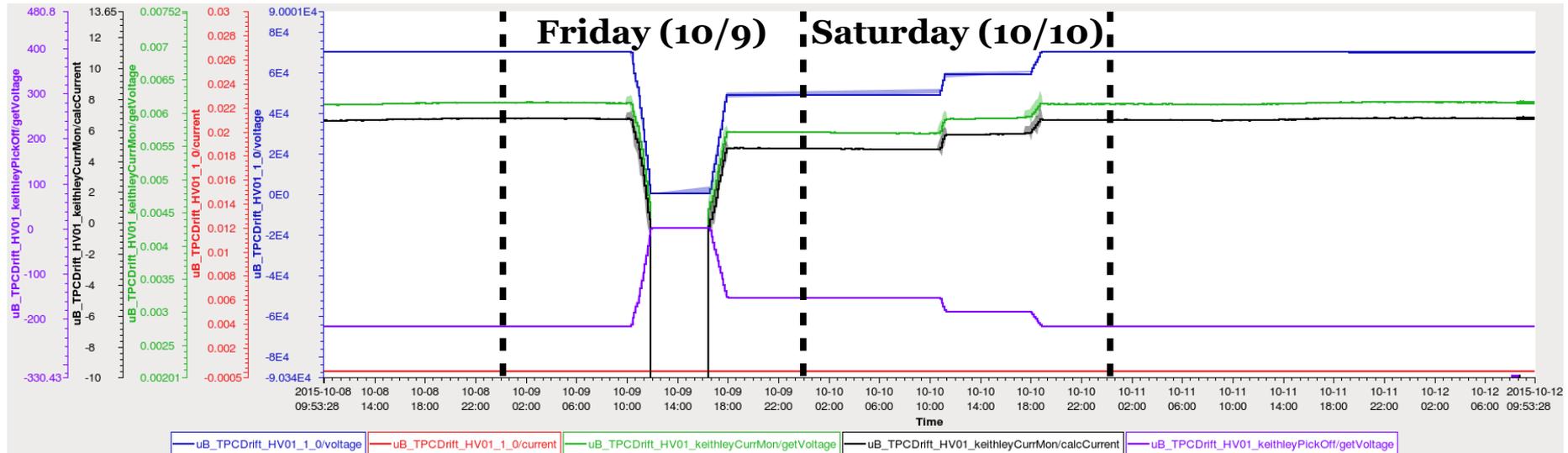


LAr Recirculation Pump

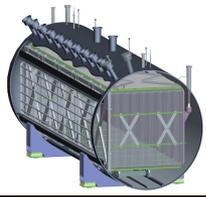
- ◆ **10/9/2015:** MicroBooNE LAr recirculation pump stopped around 3:30 am
 - Shifter first noticed problem indirectly through change in gas analyzer measurement of N_2 level
 - Shifter notified cryo expert (pager) and Run Coordinator around 5 am
 - MC1 reported problem to cryo expert at similar time
- ◆ Ramped down drift HV in morning to service pump
- ◆ Pump brought back up with no problems
 - Hypothesis is there was temporary plug upstream
- ◆ Drift HV brought back up later in the day without issue



Drift HV



- ◆ Ramped drift HV back up in steps for dedicated detector physics studies (collecting both cosmic and laser data)
- ◆ **Evening of 10/9/2015:** 0 kV → -50 kV
- ◆ **Morning of 10/10/2015:** -50 kV → -60 kV
- ◆ **Evening of 10/10/2015:** -60 kV → -70 kV
- ◆ Aside from above, drift HV holding stably since 9/21/2015



Summary

- ◆ LArTF sump pump line serviced, back in normal operational state
- ◆ MicroBooNE LAr recirculation pump stopped unexpectedly and brought back online without problems
- ◆ Drift HV holding stably since 9/21/2015
- ◆ DAQ has been taking data smoothly with little down-time using fake BNB triggers (up to 5 Hz) – MicroBooNE is ready to receive beam